

What Is Claimed Is

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1. A unilayer flexible textile performance fabric comprising a base fabric having a design of a pattern formed therein by a step of selectively manipulating into said fabric at least one dissimilar high performance fiber into said base fabric wherein said step of manipulating is computer controlled.
  2. The textile fabric of claim 1 wherein said base fabric is formed of fibers having a tensile modulus of elasticity of  $3,000 \text{ kg/mm}^2$  or less.
  3. The textile fabric of claim 1 wherein said high performance fiber has a tensile modulus of elasticity of  $5,000 \text{ kg/mm}^2$  or more.
  4. The textile fabric of claim 2 wherein said fibers are selected from natural and synthetic fibers.
  5. The textile fabric of claim 4 wherein said natural fibers are selected from cotton or wool.
  6. The textile fabric of claim 2 wherein said synthetic fibers are selected from the group consisting of rayon fibers, aliphatic polyamide fibers, polyacrylic fibers, polyester fibers, water-insoluble modified polyvinyl alcohol fibers, and mixtures thereof.
  7. The textile fabric of claim 3 wherein said high performance fiber is selected from organic polymer and inorganic fibers.
  8. The textile fabric of claim 7 wherein said high performance inorganic fiber is selected from the group consisting of S-glass fibers, E-glass fibers, steel filaments, carbon fibers, boron fibers, aluminum fibers, zirconin-silica fibers, aluminum-silica fibers and mixtures thereof.

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9. The textile of claim 7 wherein said organic polymer fiber is selected from the group consisting of aramid fiber, liquid crystal copolyester fiber, nylon fiber, polyacrylonitrile fiber, polyester fibers, polybenzimidazole fibers, high molecular weight polyvinylalcohol fiber, ultra high molecular weight polyolefin fibers and mixtures thereof.

10. The textile fabric of claim 1 comprising a cotton glove having at least one island of a unilayer synthetic or organic fibers.

11. A single layer protective fabric comprising a base fabric formed by chain-stitching a first fiber, said base fabric having a design of a pattern formed therein by the step of manipulating into said base fabric at least one dissimilar high performance fiber, wherein said step of manipulating is controlled by an output signed a programmed microprocessor so as to form at least one island of a high performance fiber.

12. A method of manufacturing a unilayer flexible performance fabric comprising the steps of:

- (a) manipulating a first fiber to form a base textile fabric in a single layer; and
- (b) manipulating at least one dissimilar performance fiber into said base fabric to form a single layer, wherein the step of manipulating is computer controlled to produce a predetermined design for pattern to form a performance fabric having enhanced performance functions.

13. The method according to claim 12 wherein the step of manipulating in step (a) comprises sewing the fibers in a chain stitch manner.

14. The method according to claim 12 where the step of manipulating in step (b) comprises knitting the performance fiber into the base fabric.

15. The method according to claim 12 further fabricating the performance fabric into a garment.

16. The method according to claim 15, wherein said garment is a glove.

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